

ABSTRACT OF THE DISCLOSURE

A variable attenuator assembly (1) includes a variable attenuating connector (VAC) (11), a coupling sleeve (12), and a second plug-type connector (13). The VAC includes a housing (20) and an attached double screw mechanism (110). The double screw mechanism is finely adjustable because it uses an adjusting knob (40) having a set of external threads (401) and a set of internal threads (402) with two different screw pitches. The external threads engage with an internally threaded bore (303) of a connecting nut (30) attached to the housing. The internal threads engage with outer threading (602) on a ferrule holder (60) received in the adjusting knob. When the adjusting knob is rotated, the knob moves in one direction, and the ferrule holder is moved in the opposite direction, the total distance of ferrule holder movement relative to the housing being proportional to the difference between the screw pitches.